

Secure Remote Access Solution for Maintenance Services

SiteManager is a security certified Remote Access Solution that ensures unified, uninterrupted and secure access to remote industrial equipment.

RT100 SiteManager series is a robust, DIN mountable industrial gateway that you install in machine control panels to provide remote access for on-demand, real-time servicing of industrial equipment.

- Security certified and built-in firewall
- Troubleshooting and remote programming of the complete range of Omron Automation System
- Service ready Device to improve responsiveness, reduce the impact of emergencies, optimise the workload of engineers and maximise machine availability and productivity
- Minimised environmental impact and increased sustainability by reducing Travels for Machine maintenance



Architecture & Key features

Connect multiple devices simultaneously

Connect up to 10 devices of all types of industrial equipment via Ethernet using the equipment's native protocols.

Persistent store-and-forward database

Integrated Flash memory extends the RAM based store-and-forward database to ensure data integrity for not only loss of Internet access, but also power-loss. The offline period can be further extended by inserting a SD-Flash card.

Collect data from industrial equipment

Collects data from industrial devices via e.g., Modbus, or OPC UA, and send the raw data for further data analysis and processing to your chosen cloud solution such as Azure, AWS, etc.

Drag & drop SCADA tunnelling setup

LogTunnel provides secure static tunnel connections and seamless integration to a central SCADA system which operates concurrently with other services, such as on-demand access control and data collection.

Easy & firewall friendly Internet access

Enable secure connectivity to the Internet through the firewall of the existing wired network infrastructure and wirelessly by 4G/LTE Global modem or via WiFi.

Safety compliance via digital ports

Digital input allowing operator control of remote access, e.g. via a physical switch, and digital output for signaling active access sessions, e.g. via a light-tower.



RT1-series

Ordering Information

Product description	Integrated 4G	Integrated WiFi	No. of Device Agents	Model Number
SiteManager LAN	No	No	10	RT100-EMM3010
SiteManager 4G Global	Yes (Global)	No	10	RT100-4GM3010-G
SiteManager 4G JP	Yes (JP)	No	10	RT100-4GM3010-J
SiteManager Wifi	No	Yes	10	RT100-W5M3010

Specifications

Electrical Properties		<ul style="list-style-type: none"> • 800 Mhz ARM Cortex A7 MCU • Input 12 to 24 VDC, via screw terminals • Network Interfaces: 4 x 10/100 Mbit • Ethernet (1 x UPLINK, 3 x DEV,) – RJ45 connection • 1 x USB 2.0 full speed (Host) • 1 x RS232 DB9 Serial port with full flow control • Power consumption: max 5 W excl. any optional USB devices (Calculate with a total of 8 W incl. USB devices) • 2 x digital input ports • 1 x output relay (max 0.5 A), 1 x digital output open drain (max 0.2 A) • Micro SD card slot for DCM store-and-forward • SiteManager 4G models only: Integrated broadband modem with external standard polarity female SMA connector and Micro SIM push-pull slot • SiteManager Wifi models only: Integrated WiFi module with (IEEE 802.11 b/g/n/ac) 2.4/5 GHz support and external female RP-SMA connector
Regulations¹	Europe	CE, RED, UKCA
	North America	FCC 47 cfr part 15
	Japan	Giteki
	Korea	RC (SiteManager LAN models only)
	General	RoHS, REACH
4G Global Modem specs (SiteManager 4G models)	LTE Regions Supported	Europe, North America, Asia, Australia, South America, Africa, APAC
	LTE bands	B1 (FDD 2100) IMT, B2 (FDD 1900) PCS B3 (1800+) DCS, B4 (1700) AWS B5 (850) CLR, US Korea etc. B7 (2600) IMT-E B8 (900) E-GSM, B12 (700) US, B13 (700c) USMH, LSMH US, LSMH US, B18 (800 or 850) Japan #4, B19 (800 or 850) Japan #5, B20 (800) Digital Dividend, B25 (1900 G Block), B26 (850+) Extended CLR, B28 (700 APT) APAC B34(TDD), B38 (TDD 2600) IMT-E, B39 (TDD 1900+) China, B40 (TDD 2300) China, B41 (TDD 2500) BRS/EBS, B66(TDD)
	WCDMA/UMTS band	B1 (2100) IMT, B2 (1900) PCS, B4 (1700) AWS-1 B5 (850) CLR, B6 (850) Japan #1, B8 (900) E-GSM B19 (800) Japan
	GPRS/EDGE bands	B2(1900), B3(1800), B5(850), B8(900)
	Modem Certifications² / Carriers	US/North America: FCC, PTCRB, IC (AT&T, Rogers) China: CCC, CTA, TA (NCC) Europe: CE RED, GCF Japan: Jate, Giteki, Telec (Via MVNO carriers: NTT Docomo, au/KDDI, Soft-bank. For connection to direct subscriptions to these carriers, you may need the region specific SiteManager 4G JP model)

Physical Properties	Operating temperature	-25 to 60°C (-13 to 140°F), 5% to 95% RH
	Storage temperature	-40 to 60°C (-40 to 140°F), 5% to 95% RH
	Dimensions, unpacked (H×W×D)	107 × 32 × 97 mm (4 1/5 × 1 1/4 × 3 4/5 inch)
	Weight	500 g
	Housing	Metal case, IP20, DIN mountable
	Operating altitude	up to 2000 m
	Storage altitude	up to 3000 m
Networking Capabilities		<ul style="list-style-type: none"> Choice of Uplink (WAN) Internet access: <ul style="list-style-type: none"> Ethernet, SiteManager Wifi models only: Integrated WiFi in Client or AP mode WiFi Client or AP mode via USB adapter (not included) SiteManager 4G models only: Integrated Cellular modem Cellular via USB modem (not included) Choice of Uplink IP-assignment mode: DHCP client, PPPoE client, manual/static Telnet to Serial routing (rfc2217). DHCP server on Device LAN by Ethernet or as access point via WiFi USB port for remote accessing USB-enabled devices (directly or via USB hub) Support for remote access by any UDP/TCP based protocol including Layer 2 LogTunnel support for easy setup of remote SCADA logging infrastructure
Monitoring and Logging Features		<ul style="list-style-type: none"> System log with System Watchdog Automatic event logging on GateManager™ SiteManager 4G models only: Bi-directional SMS Gateway support via Serial AT commands and UDP/TCP script commands Advanced trouble-shooting functionality for automatic discovery of networking conflicts and configuration issues
Configuration and Management		<ul style="list-style-type: none"> Easy configuration with pre-defined configuration using a USB stick Appliance Launcher for easy initial contact and connection to GateManager™ Configuration and maintenance of SiteManager™ via browser (HTTPS/SSL – local or remote from GateManager™) Includes a Setup Assistant Wizard for guided configuration via the Web GUI Configuration backup management (via GateManager™), including scheduled backup and fast hardware replacement (cold backup) Configuration export and import (XML) Pre-defined Device Agents for easy setup of access to all PCs, web devices and all common PLCs and HMIs. Unique device scanning feature for automatic detection of IP and USB devices and configuration with a single click
LED Signalling and I/Os		<ul style="list-style-type: none"> 4 LEDs for signalling Power, Status, Wireless uplink status and LinkManager connection Digital input port for site operator control of remote access Digital or Relay output for signalling active LinkManager connections, and GateManager connection status Configurable digital input port for custom Email/SMS alert triggering Output port for custom toggling from the SiteManager GUI
Integrated Data Collection Module DCM	Collector protocols (Ethernet)	Modbus, OPC UA, http get (json, xml etc.), Simulator
	Data Server (Cloud) protocols	AWS, Azure, Cumulocity, Alibaba/Aliyun
	Edge computing capabilities	<ul style="list-style-type: none"> Aggregations (avg, max/min, compute etc.), Event triggered alarms
	Store and forward capacity	<ul style="list-style-type: none"> 80 MB internal Flash +64 GB via inserted SD memory card (not included)

¹ Refer to separate Declarations of Conformity document for details

² Certifications apply to the embedded modem, and may not apply when combined with SiteManager.

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Cat. No. P154-E2-01

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